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NOTICE OF ALLOWANCE AND FEE(S) DUE

53148

P.O. BOX 2902-0902

7590

11/17/2009

HAMRE, SCHUMANN, MUELLER & LARSON P.C. MINNEAPOLIS, MN 55402

EXAMINER DAHIMENE, MAHMOUD ART UNIT PAPER NUMBER

1792

DATE MAILED: 11/17/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,158	02/13/2006	Tohru Nakagawa	10873.1842USWO	5914

TITLE OF INVENTION: METAL PATTERN AND PROCESS FOR PRODUCING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/17/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth tions.	ng the Patent, advance on the nerwise in Block 1, by (rders and notification of a) specifying a new co	of main orrespon	ntenance fees will ndence address; a	be mailed to the highest before the highest before the highest terms of the highest before the highest befor	ne current c ing a separa	orrespondence address as ate "FEE ADDRESS" for
CURRENT CORRESPOND	ock 1 for any change of address)]	Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, n have its own certificate of mailing or transmission.				any other accompanying	
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HAMRE, SCH P.O. BOX 2902 MINNEAPOLIS	LER & LARSON	ON P.C.		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
			[(Depositor's name)
								(Signature)
			Į					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR	A	TTORNEY DOCK	ET NO.	CONFIRMATION NO.
10/568,158	02/13/2006	'	Tohru Nakagawa		<u> </u>	10873.1842US	swo	5914
TITLE OF INVENTION	: METAL PATTERN A	ND PROCESS FOR PRO	DUCING THE SAME	Ξ				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE P	REV. PAID ISSUE F	EE TOTAL FE	EE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0	\$1	810	02/17/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	:				
DAHIMENE,	MAHMOUD	1792	216-100000					
1. Change of correspond CFR 1.363).	ence address or indication	n of "Fee Address" (37		g on the patent front page, list				
_ ′	ondence address (or Cha B/122) attached.	nge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to					
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☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
		A TO BE PRINTED ON	L THE PATENT (print or	r type)				
PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on th	ne pater	nt. If an assignee	is identified bel	ow, the doc	cument has been filed for
(A) NAME OF ASSI	•	pletion of this form is NO	(B) RESIDENCE: (C			UNTRY)		
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Please check the appropr	iate assignee category or	categories (will not be pa	rinted on the patent):	☐ Inc	dividual 🖵 Corp	oration or other p	private grou	p entity 🔲 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (1	Please i	first reapply any	previously paid	issue fee sh	own above)
☐ Issue Fee			☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any					
			overpayment, to D	eposit .	Account Number		(enclose an	extra copy of this form).
5. Change in Entity Sta	tus (from status indicated is SMALL ENTITY statu		☐ b. Applicant is no	longer	claiming SMALL	ENTITY status.	See 37 CFF	R 1.27(g)(2).
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepte	d from anyone other th					assignee or other party in
interest as snown by the	records of the United Sta	tes Patent and Trademark	Comce.					
Authorized Signature					Date			
Typed or printed name					Registration No.			
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10/568,158	02/13/2006	Tohru Nakagawa	10873.1842USWO	5914		
53148 75	53148 7590 11/17/2009			EXAMINER		
HAMRE, SCHU	MANN, MUELLER	DAHIMENE, MAHMOUD				
P.O. BOX 2902-09		ART UNIT	PAPER NUMBER			
MINNEAPOLIS, N	MN 55402		1792			
		DATE MAILED: 11/17/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 949 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 949 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/568,158	NAKAGAWA, TOHRU	
Notice of Allowability	Examiner	Art Unit	
	MAHMOUD DAHIMENE	1792	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in thi or other appropriate communic IGHTS. This application is subj	s application. If not included ation will be mailed in due course. THIS	
1. This communication is responsive to <u>2/13/2006</u> .			
2. ☑ The allowed claim(s) is/are <u>1-20</u> .			
 Acknowledgment is made of a claim for foreign priority unanal All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application N	o	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirements	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposit of the properties of the properties of the deposit of t	son's Patent Drawing Review (Formula). s Amendment / Comment or in the description on the description of th	the Office action of rawings in the front (not the back) of .121(d). AL must be submitted. Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 2/13/06, 3/13/09 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material /M. D./ Examiner, Art Unit 1792	6. ☐ Interview Sumr Paper No./Mai 7. ☐ Examiner's Am 8. ☑ Examiner's Sta 9. ☐ Other /Nadine G Norton/	I Date endment/Comment tement of Reasons for Allowance	

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Allowable Subject Matter

1. Claims 1-20 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Regarding claims 1 and 20, the cited prior art of record fails to disclose or render obvious a metal pattern formed on a surface of a substrate by etching, comprising the structure formed by a masking film formed by penetration of a molecule having a mercapto group (-SH) or a disulfide (-SS-) group into interstices between molecules composing a monomolecular film as described in the claims, in combination with the rest of the steps/limitations of claims 1 and 20 respectively.

As to claim 10, since the metal pattern formed on a surface of a substrate by etching is allowable, the method of making the said metal pattern is also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MAHMOUD DAHIMENE whose telephone number is (571)272-2410. The examiner can normally be reached on week days from 8:00 AM. to 5:00 PM..

Application/Control Number: 10/568,158

Art Unit: 1792

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. D./ Examiner, Art Unit 1792

/Nadine G Norton/

Supervisory Patent Examiner, Art Unit 1792